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**SYSTEM AND METHOD FOR AUTOMATICALLY AND  
DYNAMICALLY OPTIMIZING APPLICATION DATA  
RESOURCES TO MEET BUSINESS OBJECTIVES**

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**ABSTRACT OF THE INVENTION**

10        A system and method to automatically and dynamically optimize available resources to meet application data availability and business objectives. In one embodiment, a backup and data recovery system continually and dynamically adjust to the backup and recovery or restore process depending on the customer's environment, workload, and business objectives. Acceptable  
15        tolerance of downtime due to recovery and backup impacts the customer's business or system operation. From this high-level business requirement, the present system determines the backup and recovery plan details. The present system accepts application data availability policies based on business objectives, and devises, executes and refines a resource optimal backup and  
20        recovery strategy required to deliver the desired quality of service in the environments that have dynamically changing application workloads, business objectives, and hardware/software infrastructure technologies. In addition, the present system performs backups outside blocked windows to minimize the impact on the customer's system.

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